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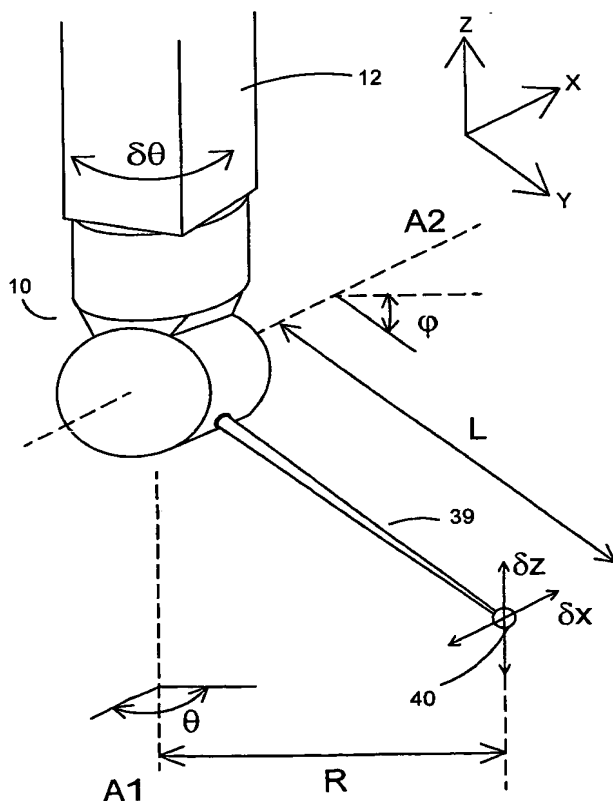
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**(54) Title: METHOD OF ERROR COMPENSATION IN A COORDINATE MEASURING MACHINE WITH AN ARTICULATING PROBE HEAD**



**(57) Abstract:** A method of error compensation for measurements taken using a co-ordinate positioning apparatus comprising an articulating probe head having a surface detecting device. The surface detecting device is rotated about at least one axis of the articulating probe head during measurement. The method comprises the steps of: determining the stiffness of the whole or part of the apparatus; determining one or more factors which relate to the load applied by the articulating probe head at any particular instant, and determining the measurement error at the surface sensing device caused by the load.

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